

## REMARKS

Claims 1, 29, 42, 43, 45, 48, 54, 58-67 and 73-74 are pending in the application. Claims 29, 42, 43, 45 and 48 have been amended to clarify the invention, and claims 88-104 have been added. Upon entry of this amendment, claims 1, 29, 42, 43, 45, 48, 54, 58-67, 73-74 and 88-104 will be pending.

Claims 29 and 42 have been amended to recite, in pertinent part, "on a computer." Support for this amendments is found in the specification, *e.g.*, at page 85, paragraph [00211] to page 86, paragraph [00213]; page 84, paragraph [00206]; and page 85, paragraph [00209].

Claim 42 also has been amended to recite "a profile comprising measurements of *levels of transcripts of or proteins encoded by respective genes in a plurality of genes*" (emphasis added). Claim 43 has been amended to recite "template comprising measurements of *levels of transcripts of or proteins encoded by respective genes in said plurality of genes that are representative of levels of transcripts of, or proteins encoded by, said genes*" (emphasis added). Support for these amendments is found in the specification, *e.g.*, at page 54, paragraph [00122]; page 51, paragraph [00117]; and page 68, paragraph [00150].

Support for new claims 88 and 90 is found in the specification, *e.g.*, at page 83, paragraph [00203].

Support for new claims 89 and 94-104 is found in the specification, *e.g.*, at page 53, paragraph [00121] to page 56, paragraph [00124]; and at page 85, paragraph [00211] to page 86, paragraph [00213].

Support for new claims 92 and 93 is found in the specification, *e.g.*, at page 52 paragraph [00119], page 51, paragraph [00117]; and page 68, paragraphs [00150] to [00151].

No new matter has been added by these amendments.

Entry of the foregoing amendments and consideration of the remarks are respectfully requested.

Respectfully submitted,

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Adriane M. Antler

32,605

(Reg. No.)

**JONES DAY**

222 East 41<sup>st</sup> Street

New York, New York 10017

(212) 326-3939